# 3D FR20-G
Support wavelength:532nm

3D Dynamic Focus System
Flexible large field processing
Extreme small focus diameter

- CNC shell,dust prevention,compact structure,easy to integrate.

- Optional water cooling design, it can be applied to high-temperature drift requirements.

- The adjustment knob is used to switch between different work fields without replacing any parts.

- Double driving Z axis dynamic focus module design, response frequency≥100HZ@±10°,easy to achieve Z depth150mm@300mmx300mm,applied to flat surface,3D surface high speed processing.

Minimum spot diameter
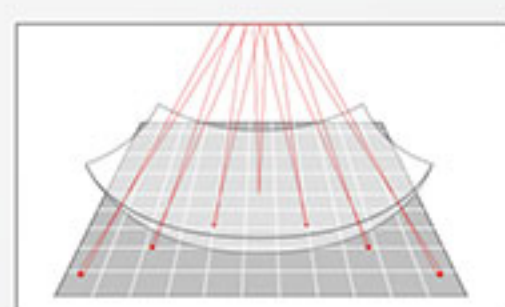**0.009**mm@120mm Focal length
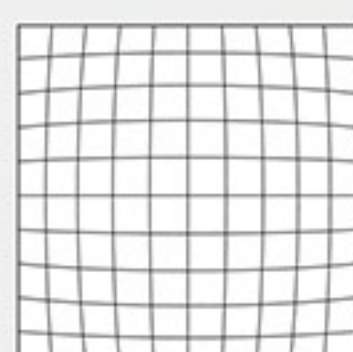**600x600x150**mm
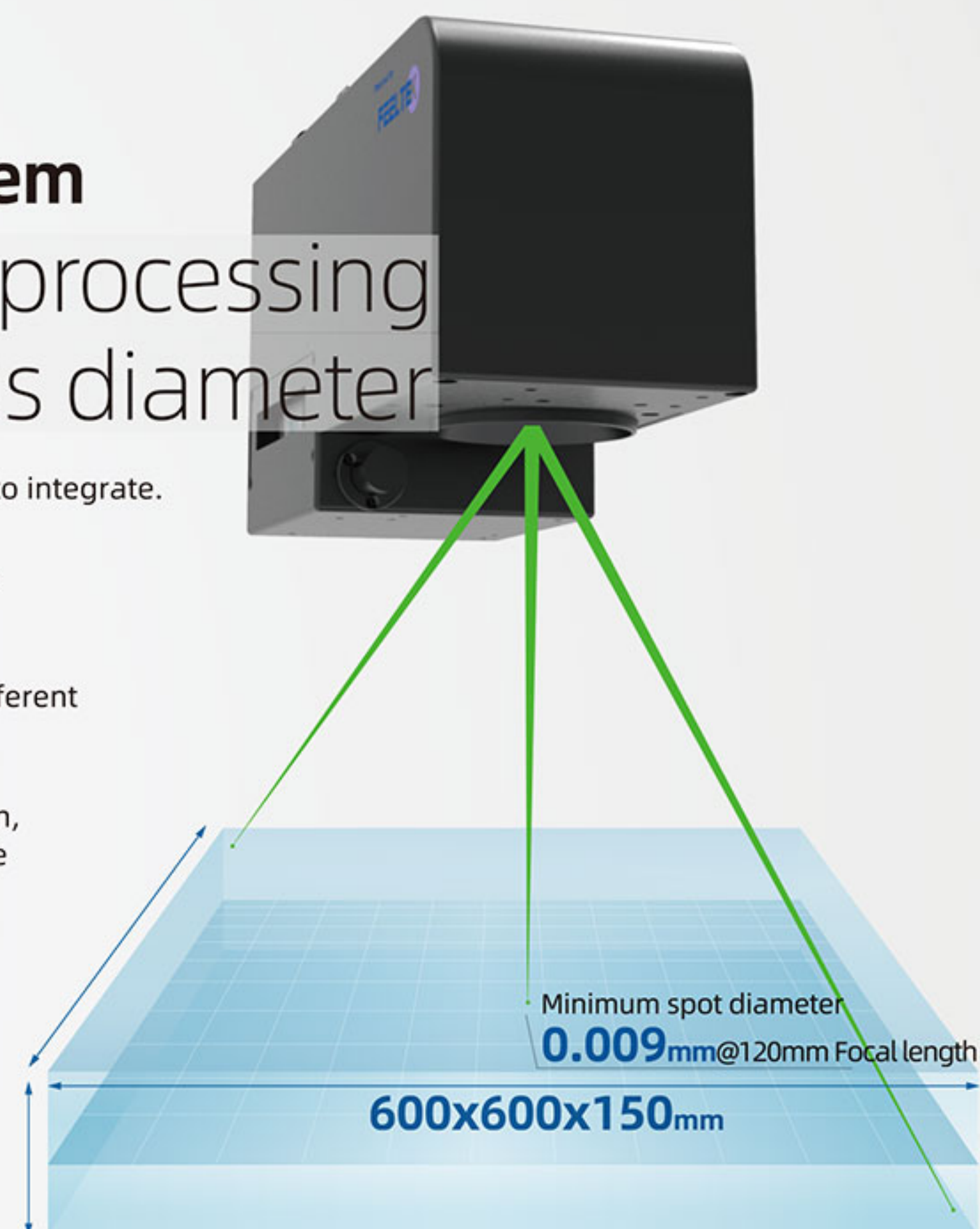
Flexible large 、3D field processing

Through the dynamic focus system control, it can be operated from 100*100*40mm to 600*600*150mm work field.
Process highlight: large size curved glass coating removal.
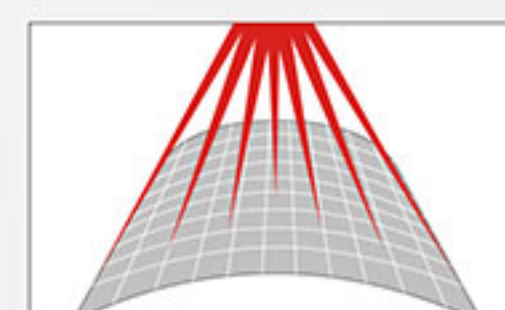
Regular Scanhead

The closer to the edge, the bigger
the spot is, the marking range is limited.

Deformation due to its characteristics.

FR20-G

Achieve 0.026mm spot size under
600*600*150mm

Marking with uniform effect under
super large work field

Application Highlight

APPLICATIONS

- Large field marking
- Laser scribing
- Drilling
- Laser cutting
- 3D application
- PCB marking

Precision marking (20X magnification)

Large size curved glass coating removal

Product Technical Information

	Technical Info.	Specifications					
Items	Output Voltage(VDC)	±15					
	Current(A)	10A					
	Protocol	XY2-100 Protocol					
	Weight（KG）	12.5					
	Size(mm)	346*134*183.5					
Optical Specifications	Aperture Size(mm)	20					
	Input beam diameter(mm)	6.5					
Galvanometer Specifications	Product line	Pro				P2	
	Scan Angle(°)	±11				±11	
	Repeatability(μrad)	8				5	
	Max.Gain Drift(ppm/k)	100				50	
	Max.Offset Drift(μrad/k)	30				15	
	Long-term drift over 8h(mrad)	≤0.2				≤0.1	
	Tracking Error(ms)	≤0.28				≤0.2	
	Max.processing speed(characters/s)	400@200×200			500@200×200		
Working Field & Spot Diameter	Working Field(mm)	100×100×40	200×200×120	300×300×150	400×400×150	500×500×150	600×600×150
	The Min.Spot Diameter@1/e² (mm)	0.009	0.015	0.021	0.027	0.032	0.041
	Focal length(mm)	120	240	360	480	600	720